Docket No.: 3273-0202PUS1

AMENDMENTS TO THE CLAIMS

- 1. (Withdrawn Currently Amended) A method for producing a porous film according to claim 4, comprising the steps of casting a polymer solution comprising a polymer onto a substrate to form a film; and subjecting the film to phase conversion to thereby form a porous film, wherein the polymer constituting the porous film has a surface tension Sa [mN/m], wherein the substrate has a surface tension Sb [mN/m], and wherein Sa and Sb satisfy the following condition: Sa-Sb≥-10.
- 2. (Withdrawn) The method for producing a porous film according to claim 1, further comprising the steps of casting a solution mixture as the polymer solution onto the substrate to form a film, and subjecting the film to phase conversion by bringing the film to a solidifying liquid to thereby form a porous film, the solution mixture comprising 8 to 25 percent by weight of a polymer component for constituting the porous film, 10 to 50 percent by weight of a water-soluble polymer, 0 to 10 percent by weight of water and 30 to 82 percent by weight of a water-soluble polar solvent.
- 3. (Withdrawn) The method for producing a porous film according to one of claims 1 and 2, further comprising the steps of holding the cast film in an atmosphere at a relative humidity of 70% to 100% and a temperature of 15°C to 90°C for 0.2 to 15 minutes, and bringing the film to a solidifying liquid comprising a nonsolvent for the polymer component.

4. (Currently Amended) A porous film having a large number of continuous micropores, wherein the film has a thickness of 5 to 200 μ m, has an average surface pore size A of 0.7 to 10 μ m and an average surface porosity C of from 50% to 80% and has an average inside pore size B and an average inside porosity D,

wherein the ratio A/B of A to B is in the range of 0.3 to 3,

wherein a maximum surface pore size is 15 μ m or less; the ratio A^1/A^2 of an average pore size at one surface A^1 to an average pore size at the other surface A^2 is from 0.6 to 1.5, a maximum inside pore size is 5.1 μ m or less; the average surface porosity C has an average porosity C^1 of from 50% to 80% at one surface and an average porosity C^2 of from 50% to 80% at the other surface; the average inside porosity D is from 45% to 80%; and the ratio C^1/D of C^1 to D is in the range of 0.7 to 1.5 and the ratio C^2/D of C^2 to D is in the range of 0.7 to 1.5 the ratio C/D of C to D is in the range of 0.7 to 1.5, and the ratio C^1/C^2 of C^1 to C^2 is in the range of 0.7 to 1.5,

wherein a polymer component forming the film comprises at least one selected from a group of amide-imide polymers, imide polymers, polyethersulfones, polysulfones, acrylic polymers or cellulose acetate,

wherein a Gurley permeability of the porous film is from 0.2 to 29 seconds per 100 cc, and

wherein the porous film is produced in a method comprising the steps of casting a polymer solution comprising a polymer onto a substrate to form a film; and subjecting the film to phase conversion to thereby form a porous film, wherein the polymer constituting the porous

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film has a surface tension Sa [mN/m], wherein the substrate has a surface tension Sb [mN/m], and wherein Sa and Sb satisfy the following condition: Sa-Sb≥-10.

(Currently Amended) A porous film having a large number of continuous micropores,

wherein the film has a thickness of 5 to 200 µm, has an average pore size A¹ of 0.7 to 10 um at one surface, an average pore size A² of 0.7 to 10 um at the other surface, an average porosity C¹ of from 50% to 80% at one surface, and an average porosity C² of from 50% to 80% at the other surface,

wherein the ratio A^1/A^2 of A^1 to A^2 is in the range of 0.6 to 1.5,

wherein the ratio C^1/C^2 of C^1 to C^2 is in the range of 0.7 to 1.5,

wherein a maximum surface pore size is 15 µm or less; a maximum inside pore size is 5.1 μm or less; the average inside porosity D is from 45% to 80%; the ratio C¹/D of C¹ to D is in the range of 0.7 to 1.5 and the ratio C²/D of C² to D is in the range of 0.7 to 1.5 ratio C/D of C to D is in the range of 0.7 to 1.5, and the ratio C^1/C^2 of C^1 to C^2 is in the range of 0.7 to 1.5,

wherein a polymer component forming the film comprises at least one selected from a group of amide-imide polymers, imide polymers, polyethersulfones, polysulfones, acrylic polymers or cellulose acetate,

wherein a Gurley permeability of the porous film is from 0.2 to 29 seconds per 100 cc, and

wherein the porous film is produced in a method comprising the steps of casting a polymer solution comprising a polymer onto a substrate to form a film; and subjecting the film to phase conversion to thereby form a porous film, wherein the polymer constituting the porous film has a surface tension Sa [mN/m], wherein the substrate has a surface tension Sb [mN/m], and wherein Sa and Sb satisfy the following condition: Sa-Sb≥-10.

- 6. (Previously presented) The porous film according to claim 4, wherein the Gurley permeability of the porous film is from 1 to 25 seconds per 100 cc.
- 7. (Previously presented) The porous film according to claim 4, wherein the Gurley permeability of the porous film is from 1 to 18 seconds per 100 cc.
- 8. (Previously presented) The porous film according to claim 5, wherein the Gurley permeability of the porous film is from 1 to 25 seconds per 100 cc.
- 9. (Previously presented) The porous film according to claim 5, wherein the Gurley permeability of the porous film is from 1 to 18 seconds per 100 cc.

10-19. (Cancelled).